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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/652,621	09/02/2003	Geun-Chul Lee	101-1003	1036
38209	7590	10/06/2005	EXAMINER	
STANZIONE & KIM, LLP 919 18TH STREET, N.W. SUITE 440 WASHINGTON, DC 20006			NGUYEN, LAMSON D	
			ART UNIT	PAPER NUMBER
			2861	

DATE MAILED: 10/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/652,621	<b>Applicant(s)</b> LEE, GEUN-CHUL	
	<b>Examiner</b> Lamson D. Nguyen	<b>Art Unit</b> 2861	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 7-8, 14-17 is/are allowed.
- 6) ☒ Claim(s) 1,2,9,12,13 and 18-20 is/are rejected.
- 7) ☒ Claim(s) 3-6,10 and 11 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All    b) ☐ Some    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>6/2/04, 12/30/03</u> | 6) <input type="checkbox"/> Other: ____.  |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-2, 9, 12-13, and 18-20 are rejected under 35 U.S.C. 102(a) as being anticipated by Walker et al. (6,425,650)

***Walker et al teach a printing controlling method comprising:***

#### **Claim 1:**

- registering one or more kinds of user printing sheets along with feature values of the user printing sheets (column 18, lines 24-28; figure 9, column 13, Table 1)
- obtaining a feature value of a fed printing sheet to determine a kind of medium when a printing command is applied (column 12, lines 31-33 teach signal representing type of medium detected; column 16, lines 30-35 teach types of printing mode depending type of medium detected)
- controlling a head driver according to the determined kind of printing medium (column 16, lines 30-35, figure 15 teach types of printing mode according type of medium detected)

#### **Claim 2:**

- the feature value of the printing sheet corresponds to the reflected light obtained from radiated light having a predetermined strength (column 12,

lines 30-35 teach light reflectance data of the medium, then compared to already programmed values in figure 9)

**Claim 12:**

- registering kinds of printing sheets to be used in the printer together with unique feature values thereof (column 18, lines 24-28; figure 9, column 13, Table 1)
- determining either that fed sheets are of the type registered by comparing feature values of the fed sheets with the registered feature values or that fed sheets are not of the type registered by comparing feature values of the fed sheets with an identification table (column 12, lines 31-33 teach signal representing type of medium detected; column 16, lines 30-35 teach types of printing mode depending type of medium detected)
- controlling a head driver according to the determined type of fed printing sheet (column 16, lines 30-35, figure 15 teach types of printing mode according type of medium detected)

**Claims 9, 13:**

- registering predetermined types of user printing sheets together with at least one characteristic feature thereof (column 18, lines 24-28; figure 9, column 13, Table 1)

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- determining the kind of printing sheet fed to the printer upon a print command by comparing at least one characteristic feature of the fed printing sheet with the at least one characteristic feature of the registered user printing sheets (column 12, lines 31-33 teach signal representing type of medium detected; column 16, lines 30-35 teach types of printing mode depending type of medium detected)
- controlling a head driver according to the determined kind of fed printing sheet (column 16, lines 30-35, figure 15 teach types of printing mode according type of medium detected)

**Claims 18, 20:**

- a sensor unit emitting light on a printing sheet and receiving light reflected from the printing sheet (figure 2, sensor 100, sheet 150)
- a controller determining whether the printing sheet is a pre-registered printing sheet or a general printing sheet and controlling the head driver according to the determined type of the printing sheet (column 16, lines 30-35, figure 15 teach types of printing mode according type of medium detected)

**Claim 19:**

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- wherein the controller controls one of a scanning speed of the head driver, an amount of ink discharged, a discharge pressure of the ink, and a specific number of ink nozzles to be used (column 20, lines 48-50)

### ***Allowable Subject Matter***

Claims 7-8, 14-17 are allowed.

Claims 3-6, 10-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Lindstrom et al. (6,079,807) teach a print mode mapping for plain paper and transparency.

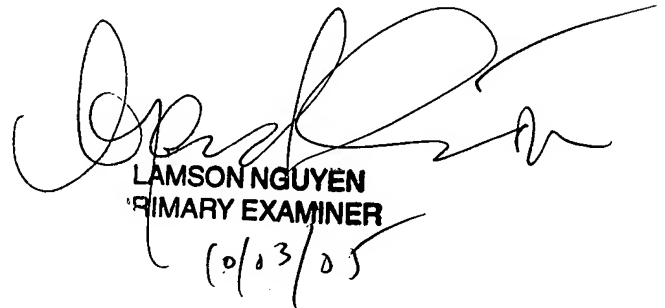
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lamson D. Nguyen whose telephone number is 571-272-2259. The examiner can normally be reached on 8-5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Talbott can be reached on 571-272-1934. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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LAMSON NGUYEN  
PRIMARY EXAMINER  
(0/03/05)